



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: October 24, 1984

OUR REPORT NO.: 401-40092-34

TEST DATA:

TEST NO	DATE	ELEV DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
148	10-24-84	3rd lift	4	*127.1	15.9	110.0	86.5	B,C,D
149	10-24-84	3rd lift	4	*127.1	14.0	116.7	91.8	A,C
150	10-24-84	3rd lift	4	*127.1	14.4	121.5	95.6	A
151	10-24-84	3rd lift	4	*127.1	14.2	123.5	97.2	A

TEST LOCATION:

148	Retest #146 (6+90 @ 0+50) from 10-6-84.
149	Retest #143 (4+80 @ 0+40) from 10-6-84.
150	Station 3+50 @ 1+60.
151	Station 3+25 @ 2+50.

US EPA RECORDS CENTER REGION 5

406762

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture contents exceed specifications

REMARKS: *Provided by others.

Technician: B. Pinkerton

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

****REVISED****

DATE: October 6, 1984

OUR REPORT NO.: 401-40092-29 (Page 1 of 3)

TEST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
132	10-6-84	3rd lift	4	*127.1	11.6	117.1	92.1	A
133	10-6-84	3rd lift	4	*127.1	11.7	119.9	94.3	A
134	10-6-84	3rd lift	4	*127.1	10.9	123.7	97.3	A
135	10-6-84	3rd lift	4	*127.1	11.2	115.3	90.7	A
136	10-6-84	3rd lift	4	*127.1	11.6	111.8	87.9	B
137	10-6-84	3rd lift	4	*127.1	13.4	111.0	87.3	B

TEST LOCATION:

132	Station 5+20 @ 4+00
133	Station 5+50 @ 3+30
134	Station 5+10 @ 2+40
135	Station 4+50 @ 2+50
136	Station 6+90 @ 0+50
137	Station 4+80 @ 0+40

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- 1. FILL MATERIAL
- 2. BACKFILL
- 3. BASE COURSE
- 4. SUBBASE
- 5. SOIL CEMENT
- 6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
- B. RECOMPACTION REQUIRED
- C. TEST IS AFTER RECOMPACTION

REMARKS:

*Provided by others

Respectfully submitted,
Professional Service Industries, Inc.



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Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: October 6, 1984

OUR REPORT NO.: 401-40092-29 (Page 2 of 3)

TEST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
138	10-6-84	2nd lift	4	*127.1	12.5	116.1	91.8	A,C
139	10-6-84	3rd lift	4	*127.1	14.9	118.9	93.5	A
140	10-6-84	3rd lift	4	*127.1	11.7	112.7	88.6	B,C
141	10-6-84	3rd lift	4	*127.1	9.4	120.5	95.1	A
142	10-6-84	3rd lift	4	*127.1	11.3	117.7	92.6	A
143	10-6-84	3rd lift	4	*127.1	11.1	112.5	88.5	B,C

TEST LOCATION:

138	Retest #130 from 10-5-84
139	Station 7+25 @ 0+15
140	Retest #136
141	Station 5+50 @ 0+60
142	Station 4+00 @ 0+90
143	Retest #137

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

* 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

*Provided by others

Respectfully submitted,
Professional Service Industries, Inc.



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Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: October 6, 1984

OUR REPORT NO.: 401-40092-29 (Page 3 of 3)

TEST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
144	10-6-84	3rd lift	4	*127.1	10.9	107.2	84.3	B
145	10-6-84	3rd lift	4	*127.1	10.6	115.3	90.7	A
146	10-6-84	3rd lift	4	*127.1	14.5	108.4	85.2	B,C
147	10-6-84	3rd lift	4	*127.1	10.8	117.7	92.0	A,C

TEST LOCATION:

144	Station 4+20 @ 0+10
145	Station 6+10 @ 0+15
146	Retest #140
147	Retest #144

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS: *Provided by others

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: October 5, 1984

OUR REPORT NO.: 401-40092-28 (Page 1 of 2)

TEST DATA:

TEST NO.	DATE	DEPTH	ELEV.	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
125	10-5-84	3rd lift			117.2	15.3	111.5	95.1	A
126	10-5-84	3rd lift			117.2	14.2	111.3	94.9	A
127	10-5-84	3rd lift			117.2	22.3	103.6	88.4	B, D
128	10-5-84	3rd lift			*127.1	10.9	120.0	94.4	A
129	10-5-84	3rd lift			117.2	18.9	108.4	92.5	A, C

TEST LOCATION:

125	Station 8+15 @ 5+10
126	Station 8+30 @ 3+60
127	Station 8+50 @ 0+50
128	Station 7+25 @ 2+90
129	Retest #127

NOTES: DENSITIES SHOWN: Lbs per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS: 90% compaction required

*Provided by others

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: October 5, 1984

OUR REPORT NO.: 401-40092-28 (Page 2 of 2)

TEST DATA:

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
130	10-5-84	2nd lift	4	* 127.1	17.1	113.7	89.6	B,C
131	10-5-84	3rd lift	1	117.2	16.0	112.6	96.1	A,C

TEST LOCATION:

130	Retest #124 from 10-4-84
131	Retest #109 from 10-2-84

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS: *Provided by others

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.

Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: October 4, 1984

OUR REPORT NO.: 401-40092-27 (Page 1 of 2)

TEST DATA:

TEST NO.	DATE	ELEV. / DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
118	10-4-84	3rd lift	4	* 127.1	8.7	120.0	94.4	A
119	10-4-84	2nd lift	4	* 127.1	10.9	120.0	94.4	A
120	10-4-84	3rd lift	4	* 127.1	11.2	122.5	96.4	A
121	10-4-84	3rd lift	4	* 127.1	10.8	116.6	91.8	A
122	10-4-84	3rd lift	4	* 127.1	10.2	117.9	92.8	A

TEST LOCATION:

118	Station 6+00 @ 3+20
119	Station 6+40 @ 4+20
120	Station 5+50 @ 3+50
121	Station 7+85 @ 1+60
122	Station 6+95 @ 1+40

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS: 90% compaction required

*Provided by others

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
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TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: October 4, 1984

OUR REPORT NO.: 401-40092-27 (Page 2 of 2)

TEST DATA:

TEST NO	DATE	E-LEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
123	10-4-84	2nd lift	4	*127.1	11.1	116.0	91.3	A
124	10-4-84	2nd lift	4	*127.1	11.6	110.9	87.3	B

TEST LOCATION:

123	Station 3+30 @ 2+20
124	Station 3+85 @ 0+80

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS: *Supplied by others.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: October 3, 1984

OUR REPORT NO.: 401-40092-26

TEST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
113	10-3-84	1st lift	4	*127.1	10.3	119.7	94.2	A
114	10-3-84	1st lift	4	*127.1	12.2	112.3	88.5	B
115	10-3-84	2nd lift	4	*127.1	11.3	117.0	92.1	A
116	10-3-84	2nd lift	4	*127.1	11.6	114.5	90.1	A
117	10-3-84	1st lift	4	*127.1	12.3	119.9	94.3	A

TEST LOCATION:

113	Station 4+10 @ 2+80
114	Station 4+50 @ 0+70
115	Station 5+70 @ 1+00
116	Station 7+20 @ 1+25
117	Retest #114

NOTES: DENSITIES SHOWN: Lbs per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

REMARKS: * Provided by others

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: October 2, 1984

OUR REPORT NO.: 401-40092-25

TEST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
108	10-2-84	1st lift	4	* 127.1*	14.8	120.5	94.8	A
109	10-2-84	3rd lift	4	* 127.1	14.2	113.8	87.7	XB
110	10-2-84	1st lift	1	117.2	17.4	111.5	95.1	A
111	10-2-84	2nd lift	1	117.2	18.3	111.1	94.7	A
112	10-2-84	2nd lift	4	* 127.1	13.9	114.8	90.3	A

TEST LOCATION:

108	Station 6+60 @ 2+90
109	Station 5+80 @ 5+75
110	Station 7+30 @ 2+00
111	Station 8+25 @ 1+80
112	Station 6+20 @ 1+10

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

REMARKS: *Provided by others.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

ESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

ATE: September 22, 1984

OUR REPORT NO.: 401-40092-23

EST DATA:

TEST NO	DATE	ELEV.	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
		DEPTH						
106	9-22-84	Second Lift	1	117.2	16.6	106.8	91.1	1, A
107	9-22-84	First Lift	1	117.2	20.1	106.2	90.6	1, A

EST LOCATION:

106	Station 4+25 @ 3+70
107	Station 7+90 @ 4+00

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture in excess of specifications

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

ESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippa, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 21, 1984

OUR REPORT NO.: 401-40092-22 (Page 1 of 2)

EST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
99	9-21-84	Third Lift	1	117.2	20.1	107.7	91.9	1, A
100	9-21-84	Third Lift	1	117.2		105.5	90.0	1, B, D
101	9-21-84	Third Lift	1	117.2	19.0	109.2	93.2	1, A
102	9-21-84	Third Lift	1	117.2	19.1	107.2	91.5	1, A
103	9-21-84	Third Lift	1	117.2	23.2	105.0		
104	9-21-84	First Lift	1	117.2	20.2	105.2		

EST LOCATION:

99	Station 6+75 @ 5+90
100	Station 6+25 @ 5+00
101	Station 5+30 @ 5+30
102	Station 4+50 @ 4+10
103	Station 3+25 @ 4+20
104	Station 3+45 @ 2+20

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

REMARKS:

- 1. FILL MATERIAL
- 2. BACKFILL
- 3. BASE COURSE
- 4. SUBBASE
- 5. SOIL CEMENT
- 6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
- B. RECOMPACTION REQUIRED
- C. TEST IS AFTER RECOMPACTION
- D. Moisture in excess of specifications

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

ESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

ATE: September 21, 1984

OUR REPORT NO.: 401-40092-22 (Page 2 of 2)

EST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
105	9-21-84	Third Lift	1	117.2	22.3	104.7		

EST LOCATION:

105	Station 8+35 @ 4+50

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture in excess of
specifications

EMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 20, 1984

OUR REPORT NO.: 401-40092-21 (Page 1 of 2)

EST DATA:

TEST NO.	DATE	ELEV DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
91	9-20-84	Third Lift	1	117.2	35.4	87.5	74.7	B, D
92	9-20-84	Second Lift	1	117.2	24.9	101.7		
93	9-20-84	Third Lift	1	117.2	20.1	101.9		
94	9-20-84	581	3	115.8	17.8	108.2	93.4	1, A
95	9-20-84	581	3	115.8	12.8	97.3		
96	9-20-84	Third Lift	1	117.2	21.3	104.3		

EST LOCATION:

91	Station 3+70 @ 4+70
92	Station 5+00 @ 2+00
93	Station 5+20 @ 5+00
94	Station 6+75 @ 2+90 Under Clay Cap
95	Station 4+80 @ 3+75 Under Clay Cap
96	Station 6+00 @ 5+20

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture in excess of
specifications

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

ESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

ATE: September 20, 1984

OUR REPORT NO.: 401-40092-21 (Page 2 of 2)

EST DATA:

TEST NO	DATE	ELEV	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
		DEPTH						
97	9-20-84	Second Lift	1	117.2	23.3	101.0		
98	9-20-84	Third lift	1	117.2	22.7	103.5		

EST LOCATION:

97	Station 8+00 @ 5+80
98	Station 6+10 @ 5+00

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

EMARKS:

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture in excess of specifications

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippa, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 19, 1984

OUR REPORT NO.: 401-40092-20 (Page 1 of 2)

TEST DATA:

TEST NO.	DATE	ELEV	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
		DEPTH						
82	9-19-84	Second Lift	1	117.2	19.8	106.2	90.6	A
83	9-19-84	Second Lift	1	117.2	18.5	108.0	92.2	A, C
84	9-19-84	Second Lift	1	117.2	16.6	112.1	95.6	A
85	9-19-84	First Lift	1	117.2	21.6	103.2		
86	9-19-84	First Lift	1	117.2	20.2	105.7	90.2	A, C
87	9-19-84	First Lift	1	117.2	18.5	102.5		

TEST LOCATION:

82	Station 7+70 @ 5+40
83	Retest of #78 from 9-18-84
84	Station 3+25 @ 4+10
85	Station 3+90 @ 3+20
86	Retest of #80 from 9-18-84
87	Station 5+80 @ 5+10

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture in excess of specifications

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 19, 1984

OUR REPORT NO.: 401-40092-20 (Page 2 of 2)

EST DATA:

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
88	9-19-84	First Lift	1	117.2	17.8	109.3	93.3	A
89	9-19-84	First Lift	1	117.2	20.0	106.2	90.6	A
90	9-19-84	Second Lift	1	117.2	26.2	97.5		

EST LOCATION:

88	Station 4+50 @ 3+50
89	Station 7+30 @ 3+50
90	Station 5+00 @ 3+25

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

REMARKS:

- * 1. FILL MATERIAL
- 2. BACKFILL
- 3. BASE COURSE
- 4. SUBBASE
- 5. SOIL CEMENT
- 6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
- B. RECOMPACTION REQUIRED
- C. TEST IS AFTER RECOMPACTION
- D. Moisture in excess of specifications

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 18, 1984

OUR REPORT NO.: 401-40092-19

TEST DATA:

TEST NO	DATE	ELEV. / DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
78	9-18-84	Second Lift	1	117.2	22.9	103.6	88.4	U. D. 7
79	9-18-84	582.5	1	117.2	28.8	96.3	82.2	U. D. 7
80	9-18-84	First Lift	1	117.2	25.6	99.5	84.2	U. D. 7
81	9-18-84	Second Lift	1	117.2	18.6	111.7	95.3	A. C

TEST LOCATION:

78	Station 5+00 @ 4+90
79	Station 4+70 @ 4+90 - Under Clay Cap
80	Station 5+50 @ 2+25
81	Station 3+50 @ 3+00

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

REMARKS:

- * 1. FILL MATERIAL
- 2. BACKFILL
- 3. BASE COURSE
- 4. SUBBASE
- 5. SOIL CEMENT
- 6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
- B. RECOMPACTION REQUIRED
- C. TEST IS AFTER RECOMPACTION
- D. Moisture in excess of specifications

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

ESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippa, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 17, 1984

OUR REPORT NO.: 401-40092-18

TEST DATA:

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
72	9-17-84	583.5	3	115.8	15.9	113.0	97.6	1, A
73	9-17-84	583	3	115.8	18.4	111.5	96.3	1, A
74	9-17-84	583	3	115.8	16.7	111.0	95.9	1, A
75	9-17-84	Second Lift	1	117.2	21.0	106.9	91.2	D
76	9-17-84	Second Lift	1	117.2	21.0	99.3	99.3	100.0
77	9-17-84	First Lift	1	117.2	19.4	107.4	91.6	A

TEST LOCATION:

72	Station 4+25' @ 2+30' - Under Clay Cap
73	Station 4+60' @ 3+00' - Under Clay Cap
74	Station 4+25' @ 4+00' - Under Clay Cap
75	Station 5+10' @ 4+60'
76	Station 3+50' @ 3+75'
77	Retest #68 from 9-8-84

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

REMARKS:

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture in excess of
specifications

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 13, 1984

OUR REPORT NO.: 401-40092-16

TEST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
69	9-13-84	First Lift	1	117.2	21.6	104.4	89.1	B,D
70	9-13-84	First Lift	1	117.2	20.1	107.0	91.3	A,C
71	9-13-84	First Lift	1	117.2	22.6	104.2	88.9	B,D

TEST LOCATION:

69	Restest of #67 from September 8, 1984
70	Restest of #66 from September 8, 1984
71	Station 7+50' at 5+40'

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

REMARKS:

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture in excess of
specifications
E. Moisture below specifications

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 8, 1984

OUR REPORT NO.: 401-40092-15

TEST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
64	9-8-84	681.5	1	117.2	21.1	108.0	92.1	1-A,C
65	9-8-84	First Lift	1	117.2	23.9	102.3	87.3	B,D
66	9-8-84	First Lift	1	117.2	23.0	106.0	90.4	D
67	9-8-84	First Lift	1	117.2	22.9	106.0	90.4	D
68	9-8-84	First Lift	1	117.2	23.6	103.4	88.2	B,D

TEST LOCATION:

64	Station 3+70' at 3+75' - <i>under clay cap</i>
65	Station 6+25' at 5+80'
66	Station 4+50' at 4+25'
67	Station 3+50' at 4+100'
68	Station 6+75' at 5+75'

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture in excess of
specifications
E. Moisture below specifications

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 6, 1984

OUR REPORT NO.: 401-40092-14 (Page 1 of 2)

WEATHER: Mostly Sunny
TEMPERATURE RANGE: 65° TO: 70°
INSPECTOR: Bill Pinkerton

TYPE OF INSPECTION BEING PERFORMED

<input checked="" type="checkbox"/> SOILS	<input type="checkbox"/> CONCRETE
<input type="checkbox"/> FOUNDATIONS	<input type="checkbox"/> BATCH PLANT
<input checked="" type="checkbox"/> CONTROLLED FILL (COMPACTION)	<input type="checkbox"/> PLACEMENT (JOB SITE)
<input type="checkbox"/> ASPHALT	<input type="checkbox"/> OTHER
<input type="checkbox"/> BATCH PLANT	
<input type="checkbox"/> PLACEMENT (JOB SITE)	

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Performed a total of two compaction tests using a nuclear-density device over the area tested on September 5, 1984. The compaction tests indicated that the area still did not comply with project specifications due to excessive moisture. Contractor disced the area and it will be recompacted and retested September 7, 1984.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 6, 1984

OUR REPORT NO.: 401-40092-14 (Page 2 of 2)

TEST DATA:

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
62	9-6-84	First Lift	1	117.2	24.1	101.4	86.5	C, B, D
63	9-6-84	581.5	1	117.2	24.6	100.2	85.5	1-C, B

TEST LOCATION:

62	Retest of #60 from September 5, 1984
63	Retest of #59 from September 5, 1984

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 5, 1984

OUR REPORT NO.: 401-40092-13 (Page 1 of 2)

WEATHER: Mostly Sunny

TEMPERATURE RANGE: 70° TO: 75°

INSPECTOR: Bill Pinkerton

TYPE OF INSPECTION BEING PERFORMED

☒

SOILS

☐ FOUNDATIONS

☒

CONTROLLED FILL (COMPACTION)

☐ ASPHALT

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ CONCRETE

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ OTHER

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Arrived on jobsite as scheduled to perform field density tests on cohesive material placed for clay cap first lift and to bring fill up to grade immediately below cap. Test results indicated material below required compaction levels. The cap material exceeded the allowable moisture content. Clients representative and contractor notified of test results.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parisippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: September 5, 1984

OUR REPORT NO.: 401-40092-13 (Page 2 of 2)

TEST DATA:

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
59	9-5-84	581.5	1	117.2	20.5	99.5	84.9	1-B
60	9-5-84	First Lift	1	117.2	25.0	98.8	84.3	B, D
61	9-5-84	First Lift	1	117.2	27.6	97.0	82.8	C, B, D

TEST LOCATION:

59	Station 3+5 @ 4+25'
60	Station 3+5 @ 3+70'
61	Retest of #60

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.

17A11



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 31, 1984

OUR REPORT NO.: 401-40092-11 (Page 1 of 2)

WEATHER: Sunny

TEMPERATURE RANGE: 60° TO: 75°

INSPECTOR: Brian Lamerson

TYPE OF INSPECTION BEING PERFORMED

☒ SOILS

☐ FOUNDATIONS

☒ CONTROLLED FILL (COMPACTION)

☐ ASPHALT

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ CONCRETE

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ OTHER

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Retested small clay cap area at final grade just before placement of topsoil. Tests in this area (station 7.5 and 9+00) complied with job specifications. For specific details turn to attached sheet.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 31, 1984

OUR REPORT NO.: 401-40092-11 (Page 2 of 2)

TEST DATA:

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
54	8-31-84	@ Grade	1	117.2	20.9	110.0	93.8	A
55	8-31-84	@ Grade	1	117.2	20.6	106.5	90.8	A
56	8-31-84	@ Grade	1	117.2	20.0	110.5	94.3	A
57	8-31-84	@ Grade	3	115.8	25.7	98.3	84.8	1, B
58	8-31-84	@ Grade	3	115.8	21.2	102.8	88.7	1, B

TEST LOCATION:

54	Station 4.5 and 8+50 - <i>Outside of cap area</i>
55	Station 7.5 and 8+75
56	Station 7.5 and 9+25
57	Station 3.5 and 2+50
58	Station 5.5 and 2+50

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 27, 1984

OUR REPORT NO.: 401-40092-9

WEATHER: Sunny

TEMPERATURE RANGE: 60° TO: 85°

INSPECTOR: Brian Lamerson

TYPE OF INSPECTION BEING PERFORMED

☒ SOILS

☐ FOUNDATIONS

☒ CONTROLLED FILL (COMPACTION)

☐ ASPHALT

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ CONCRETE

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ OTHER

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Ran compaction tests on clay capping. Three (3) tests were run on cap itself and one test on general fill, to bring subgrade up on clay cap placement. Clay cap is to reach 90% of maximum density. For specific details turn to attached sheet.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 27, 1984

OUR REPORT NO.: 401-40092-9 (Page 2 of 2)

TEST DATA:

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
50	8-27-84	Second Lift	1	117.2	16.1	112.1	95.6	1-C, A
51	8-27-84	*	1	117.2	15.7	109.0	93.0	1-A
52	8-27-84	First Lift	2	125.2	13.1	117.2	93.6	1-A
53	8-27-84	Second Lift	2	125.2	11.3	124.5	99.3	1-A

TEST LOCATION:

50	Retest of #49 from 8-24-84
51	Station 7.25 and 5+00
52	Radius 110' off of Jefferson Rd fence and 330' off of E. property line
53	Radius 110' off of Jefferson Rd fence and 330' off of E. property line

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

* 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

*This test done on lift for
general fill, not clay cap.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 24, 1984

OUR REPORT NO.: 401-40092-7 (Page 1 of 2)

WEATHER: Sunny

TEMPERATURE RANGE: 60° TO: 85°

INSPECTOR: B. Lamerson

TYPE OF INSPECTION BEING PERFORMED

☒ SOILS

☐ FOUNDATIONS

☒ CONTROLLED FILL (COMPACTION)

☐ ASPHALT

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ CONCRETE

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ OTHER

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Performed field density tests in clay cover material near northeast corner of site. Clay was placed in approximately nine (9) inch loose lifts and compacted. Client and contractor informed of all test results. See accompanying report for details.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 24, 1984

OUR REPORT NO.: 401-40092-7 (Page 2 of 2)

TEST DATA:

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
48	8-24-84	First Lift	1	117.2	19.8	105.8	90.3	1, A
49	8-24-84	Second Lift	1	117.2	21.1	102.5	87.4	1, B

TEST LOCATION:

48	Retest of Nos. 46, 47 from 8-23-84
49	Station 7.50 @ 4+50

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 23, 1984

OUR REPORT NO.: 401-40092-6 (Page 1 of 2)

WEATHER: Partly Cloudy

TEMPERATURE RANGE: 55° TO: 75°

INSPECTOR: B. Lamerson

TYPE OF INSPECTION BEING PERFORMED

☒ SOILS

☐ FOUNDATIONS

☒ CONTROLLED FILL (COMPACTION)

☐ ASPHALT

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ CONCRETE

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ OTHER

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Performed field density tests in the first lift of clay capping material in the large area near northeast corner of site. Clay was placed in approximately nine (9) inch loose layers and compacted. See accompanying report for specific test results.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 23, 1984

OUR REPORT NO.: 401-40092-6 (Page 2 of 2)

TEST DATA:

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
45	8-23-84	First Lift	1	117.2	15.2	110.3	94.1	1, A
46	8-23-84	First Lift	1	117.2	25.6	98.7	84.2	1, B
47	8-23-84	First Lift	1	117.2	24.3	99.8	85.1	1, C, B

TEST LOCATION:

45	Station 7.50 @ 4+50
46	Station 7.50 @ 1+50
47	Retest #46

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 22, 1984

OUR REPORT NO.: 401-40092-5 (Page 1 of 2)

WEATHER: Cloudy

TEMPERATURE RANGE: 60° TO: 75°

INSPECTOR: B. Lamerson

TYPE OF INSPECTION BEING PERFORMED

☒

SOILS

☐ FOUNDATIONS

☒

CONTROLLED FILL (COMPACTION)

☐ ASPHALT

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ CONCRETE

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ OTHER

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Performed field density tests on final lift of clay cap in area which had not been compacted to project specifications. As of this date, all capping material placed in small area near southeast corner of site has been tested and found to meet project requirements. See accompanying report for specific test results.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 22, 1984

OUR REPORT NO.: 401-40092-5 (Page 2 of 2)

TEST DATA:

TEST NO.	DATE	DEPTH ELEV.	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
42	8-22-84	Third Lift	1	117.2	22.3	101.8	86.8	1, B, C
43	8-22-84	Third Lift	1	117.2	20.4	102.5	87.5	1, B, C
44	8-22-84	Third Lift	1	117.2	20.2	105.5	90.0	1, A, C

TEST LOCATION:

42	Retest #16 from 8-13-84
43	Retest #16 from 8-13-84
44	Retest #16 from 8-13-84

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 16, 1984

OUR REPORT NO.: 401-40092-4 (Page 1 of 5)

WEATHER: Fair
TEMPERATURE RANGE: 82° TO: 90°
INSPECTOR: M. Lelo

TYPE OF INSPECTION BEING PERFORMED

<input checked="" type="checkbox"/> SOILS	<input type="checkbox"/> CONCRETE
<input type="checkbox"/> FOUNDATIONS	<input type="checkbox"/> BATCH PLANT
<input checked="" type="checkbox"/> CONTROLLED FILL (COMPACTION)	<input type="checkbox"/> PLACEMENT (JOB SITE)
<input type="checkbox"/> ASPHALT	<input type="checkbox"/> OTHER
<input type="checkbox"/> BATCH PLANT	
<input type="checkbox"/> PLACEMENT (JOB SITE)	

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Monitored placement and compaction of clay capping material in small area in southeast area of site. Client and contractor were notified of all test results in the field. Clay was placed in approximately eight (8) inch lifts. See accompanying report for specific test results.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 16, 1984

OUR REPORT NO.: 401-40092-4 (Page 2 of 5)

TEST DATA: Optimum Moisture: 15.7%

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
20	8-16-84	Second Lift	1	117.2	18.6	108.8	92.8	A
21	8-16-84	Third Lift	1	117.2	19.5	102.5	87.5	B
22	8-16-84	Third Lift	1	117.2	19.6	103.2	88.0	B
23	8-16-84	Second Lift	1	117.2	18.8	107.7	91.8	A
24	8-16-84	Second Lift	1	117.2	18.1	108.7	92.7	A
25	8-16-84	Second Lift	1	117.2	18.6	107.5	91.7	A

TEST LOCATION:

20	Station 8.10 @ 8+80
21	Station 7.80 @ 8+90
22	Station 6.10 @ 9+40
23	Station 7.90 @ 9+10
24	Station 8.20 @ 8+90
25	Station 6.20 @ 8+40

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 16, 1984

OUR REPORT NO.: 401-40092-4 (Page 3 of 5)

TEST DATA: Optimum Moisture: 15.7%

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
26	8-16-84	Third Lift	1	117.2	19.2	104.0	88.7	B
27	8-16-84	Third Lift	1	117.2	19.7	102.7	87.6	B
28	8-16-84	Third Lift	1	117.2	19.1	105.7	90.1	A
29	8-16-84	Third Lift	1	117.2	19.9	100.5	85.7	B
30	8-16-84	Third Lift	1	117.2	19.1	104.5	89.1	B
31	8-16-84	Second Lift	1	117.2	19.4	106.7	91.0	A

TEST LOCATION:

26	Station 6.50 @ 8+70
27	Station 6.10 @ 9+40
28	Station 6.30 @ 9+50
29	Station 6.90 @ 9+30
30	Station 6.90 @ 8+50
31	Station 5.90 @ 9+50

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

* 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 16, 1984

OUR REPORT NO.: 401-40092-4 (Page 4 of 5)

TEST DATA: Optimum Moisture: 15.7%

TEST NO	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
32	8-16-84	Second Lift	1	117.2	19.2	105.7	90.1	A
33	8-16-84	Third Lift	1	117.2	19.1	105.7	90.1	A
34	8-16-84	Third Lift	1	117.2	20.2	102.7	87.6	B, C
35	8-16-84	Third Lift	1	117.2	20.1	99.5	84.8	B, C
36	8-16-84	Third Lift	1	117.2	17.2	117.2	100.0	A, C
37	8-16-84	Third Lift	1	117.2	19.3	107.5	91.7	A, C

TEST LOCATION:

32	Station 6.1 @ 9+60
33	Station 5.8 @ 8+50
34	Retest #21
35	Retest #22
36	Retest #26
37	Retest #27

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 16, 1984

OUR REPORT NO.: 401-40092-4 (Page 5 of 5)

TEST DATA: Optimum Moisture: 15.7%

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
38	8-16-84	Third Lift	1	117.2	18.8	108.5	92.5	A, C
39	8-16-84	Third Lift	1	117.2	20.0	99.5	100.0	A, C
40	8-16-84	Third Lift	1	117.2	19.6	107.0	91.3	A, C
41	8-16-84	Third Lift	1	117.2	19.9	106.7	91.0	A, C

TEST LOCATION:

38	Retest #29
39	Retest #30
40	Retest #34
41	Retest #35

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 13, 1984

OUR REPORT NO.: 401-40092-3 (Page 1 of 3)

WEATHER: Fair
TEMPERATURE RANGE: 80° TO: 90°
INSPECTOR: M. Lelo

TYPE OF INSPECTION BEING PERFORMED

<input checked="" type="checkbox"/> SOILS	<input type="checkbox"/> CONCRETE
<input type="checkbox"/> FOUNDATIONS	<input type="checkbox"/> BATCH PLANT
<input checked="" type="checkbox"/> CONTROLLED FILL (COMPACTION)	<input type="checkbox"/> PLACEMENT (JOB SITE)
<input type="checkbox"/> ASPHALT	<input type="checkbox"/> OTHER
<input type="checkbox"/> BATCH PLANT	
<input type="checkbox"/> PLACEMENT (JOB SITE)	

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Monitored laydown and compaction of second and third lifts in small area near southeast corner of site. All lifts placed were approximately eight (8) inches in thickness. The results of these tests were reported to client and contractor in the field. See accompanying report for specific test results.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 13, 1984

OUR REPORT NO.: 401-40092-3 (Page 2 of 3)

TEST DATA: Optimum Moisture: 15.7%

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
11	8-13-84	Second Lift	1	117.2	18.4	109.8	93.7	A
12	8-13-84	Second Lift	1	117.2	18.1	114.8	98.0	A
13	8-13-84	Second Lift	1	117.2	18.1	111.8	95.4	A
14	8-13-84	Second Lift	1	117.2	18.5	109.8	93.7	A
15	8-13-84	Third Lift	1	117.2	19.1	107.5	91.7	A
16	8-13-84	Third Lift	1	117.2	20.4	103.0	87.9	B, D

TEST LOCATION:

11	Station 7.80 @ 9+20
12	Station 7.60 @ 9+10
13	Station 6.50 @ 9+60
14	Station 7.70 @ 8+80
15	Station 7.40 @ 9+20
16	Station 7.70 @ 8+90

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture Content Exceeds
Specifications

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 13, 1984

OUR REPORT NO.: 401-40092-3 (Page 3 of 3)

TEST DATA: Optimum Moisture: 15.7%

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
17	8-13-84	Third Lift	1	117.2	20.4	100.5	85.8	B, D
18	8-13-84	Third Lift	1	117.2	18.4	111.5	95.1	A
19	8-13-84	Third Lift	1	117.2	18.9	108.5	92.6	A, C

TEST LOCATION:

17	Station 6.30 @ 8+50
18	Station 6.10 @ 9+50
19	Retest #17

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture Content Exceeds
Specifications

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 11, 1984

OUR REPORT NO.: 401-40092-2 (Page 1 of 2)

WEATHER: Fair
TEMPERATURE RANGE: 80° TO: 88°
INSPECTOR: M. Lelo

TYPE OF INSPECTION BEING PERFORMED

<input checked="" type="checkbox"/> SOILS	<input type="checkbox"/> CONCRETE
<input type="checkbox"/> FOUNDATIONS	<input type="checkbox"/> BATCH PLANT
<input checked="" type="checkbox"/> CONTROLLED FILL (COMPACTION)	<input type="checkbox"/> PLACEMENT (JOB SITE)
<input type="checkbox"/> ASPHALT	<input type="checkbox"/> OTHER
<input type="checkbox"/> BATCH PLANT	
<input type="checkbox"/> PLACEMENT (JOB SITE)	

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Performed field density tests on 100 feet diameter area that had been previously filled near northwest corner of site. Since no proctor value was available for this material, no results could be reported in the field. A sample of the material was returned to our laboratory for Proctor testing and the results of todays compaction tests are shown on accompanying report.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
P.O. Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 11, 1984

OUR REPORT NO.: 401-40092-2 (Page 2 of 2)

TEST DATA: Optimum Moisture: ~~15.7%~~ 15.7%

TEST NO.	DATE	ELEV. DEPTH	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
7	8-11-84	Final Grade	2	125.7	21.0	100.0	79.6	B, D
8	8-11-84	Final Grade	2	125.7	19.9	104.3	83.0	B, D
9	8-11-84	Final Grade	2	125.7	20.0	105.0	83.5	B, D
10	8-11-84	Final Grade	2	125.7	20.3	103.5	82.3	B, D

TEST LOCATION:

7	Station 1.00 @ 3+30
8	Station 1.30 @ 3+00
9	Station 1.70 @ 3+30
10	Station 1.30 @ 3+70

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

REMARKS:

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION
D. Moisture Contents Exceeds
Specifications

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

DAILY FIELD REPORT

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 10, 1984

OUR REPORT NO.: 401-40092-1

WEATHER: Sunny

TEMPERATURE RANGE: 80° TO: 90°

INSPECTOR: Mike Lelo

TYPE OF INSPECTION BEING PERFORMED

☒ SOILS

☐ FOUNDATIONS

☒ CONTROLLED FILL (COMPACTION)

☐ ASPHALT

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ CONCRETE

☐ BATCH PLANT

☐ PLACEMENT (JOB SITE)

☐ OTHER

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE: Monitored placement of compaction of first layers of clay capping material in the small area near S.E. corner of site. The clay was placed in lift thickness of approximately eight (8) inches. Contractor and client were notified of all test results prior to leaving the site. See accompanying report for specific test results.

Respectfully submitted,
Professional Service Industries, Inc.



Professional Service Industries, Inc.
Michigan Testing Engineers Division

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: BASF Wyandotte Corporation
Accounts Payable
Post Office Box 250
Parsippany, New Jersey 07054

PROJECT: Clay Capping Project
Riverview, Michigan

DATE: August 10, 1984

OUR REPORT NO.: 401-40092-1 (Page 2 of 2)

TEST DATA: Optimum Moisture: 15.7%

TEST NO.	DATE	DEPTH ELEV.	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY	WATER CONTENT	IN PLACE DRY DENSITY	PER CENT COMPACTION	COMMENT *
1	8-10-84	First Lift	1	117.2	18.6	110.0	93.9	A
2	8-10-84	First Lift	1	117.2	19.6	104.5	89.2	B -
3	8-10-84	First Lift	1	117.2	20.2	101.5	86.6	B
4	8-10-84	First Lift	1	117.2	19.5	106.3	90.7	AC
5	8-10-84	First Lift	1	117.2	18.0	109.8	93.7	A
6	8-10-84	First Lift	1	117.2	19.2	107.0	91.3	AC

TEST LOCATION:

1	Station 5.30 at 9+30
2	Station 5.70 at 8+60
3	Station 7.00 at 9-00
4	Retest #3
5	Station 8.00 at 9+00
6	Retest #2

NOTES: DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Per Cent of dry weight
PERCENT COMPACTION: Based on maximum dry
density obtained on sample indicated by
soil ID number.

- * 1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

- A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. RECOMPACTION REQUIRED
C. TEST IS AFTER RECOMPACTION

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.